7 8 9 10 11 12 1 2 1 2

CLAIMS: I claim:

- 1 1. A wheelchair suspension comprising:
- 2 a frame member;
- a pivoting assembly having:
- a pivot arm pivotally coupled to the frame and
- 5 having a first engagement surface;
- a drive assembly pivotally coupled to the frame
- 7 and having a second engagement surface configured to engage
 - 8 the first engagement surface; and
- 9 wherein the second engagement surface is
- 10 configured to disengage from the first engagement surface
 - 1 upon pivotal movement of the drive assembly in a first
- 12 direction.
 - 1 2. The suspension of claim 1 wherein the first engagement
 - 2 surface comprises a shoulder.
 - 1 3. The suspension of claim 1 wherein the second
 - 2 engagement surface comprises a cylindrical shape.
 - 1 4. The suspension of claim 1 wherein the first engagement
 - 2 surface comprises an undulating surface.
 - 1 5. The suspension of claim 3 wherein the cylindrical
 - 2 shape is received by the undulating surface.
 - 1 6. The suspension of claim 1 wherein the pivot arm and
 - 2 the drive assembly are pivotally coupled to the frame at a
 - 3 common location on the frame.

- 1 7. The suspension of claim 1 further comprising a
- 2 resilient member for regulating the second engagement
- 3 surface disengage from the first engagement.
- 1 8. The suspension of claim 1 wherein the pivot arm
- 2 further comprises a first and second ends and wherein the
- 3 first end has a castor assembly coupled thereto and wherein
- 4 the second end comprises the first engagement surface.
- 1 9. The suspension of claim 6 wherein the pivot arm
- 2 further comprises a first and second ends and wherein the
 - first end has a castor assembly coupled thereto and wherein
- 4 the second end comprises the first engagement surface, and
- 5 wherein the common pivot location is between the first and
- 6 second ends.
- 1 10. A wheelchair suspension comprising:
- 2 a frame;
- at least one pivot arm pivotally coupled to the frame
- and having a first engagement surface;
- at least one drive assembly pivotally coupled to the
- 6 frame and having a second engagement surface;
- 7 wherein the pivot arm and drive assembly are pivotally
- 8 coupled to the frame at a common location on the frame; and
- 9 wherein the first and second engagement surfaces are
- 10 configured to engage each other upon pivotal motion of the
- 11 drive assembly in a first direction and to disengage from
- 12 each other upon pivotal motion of the drive assembly in a
- 13 second direction.

- 1 11. The suspension of claim 10 wherein the first
- 2 engagement surface comprises a shoulder.
- 1 12. The suspension of claim 10 wherein the second
- 2 engagement surface comprises a cylindrical shape.
- 1 13. The suspension of claim 10 wherein the first
- 2 engagement surface comprises an undulating surface.
- 1 14. The suspension of claim 10 further comprising a
- 2 resilient member disposed between the pivot arm and the
- 3 drive assembly to limit the relative pivotal movement
- 4 therebetween.
- 1 15. The suspension of claim 10 wherein the pivot arm
- 2 comprises a front portion having a at least one caster
- 3 coupled thereto and a rear portion having the first
- 4 engagement surface.
- 1 16. The suspension of claim 15 wherein the pivotal
- 2 coupling of the pivot arm is between the front and rear
- 3 portions of the pivot arm.
- 1 17. The suspension of claim 10 wherein pivotal motion of
- 2 the drive assembly in a first direction causes pivotal
- 3 motion of the pivot arm and pivotal motion of the drive
- 4 assembly in a second direction does not cause pivotal
- 5 motion of the pivot arm.
- 1 18. A wheelchair suspension comprising:
- a frame having first and second sides;

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- first and second pivoting assemblies coupled to the
- 4 first and second sides of the frame, each pivoting assembly
- 5 comprising:
- a pivot arm pivotally coupled to the frame and
- 7 having a first engagement surface;
- a drive assembly pivotally coupled to the frame
- 9 and having a second engagement surface configured to engage
- 10 the first engagement surface; and
- 11 wherein the second engagement surface is
- 12 configured to disengage from the first engagement surface
- 13 upon pivotal movement of the drive assembly in a first
 - 14 direction.
 - 1 19. The suspension of claim 18 wherein the first
 - 2 engagement surface comprises at least a partially
 - 3 undulating surface.
 - 1 20. The suspension of claim 19 wherein the second
 - 2 engagement surface comprises a shape configured to be at
 - 3 least partially seated within the at least partially
 - 4 undulating surface.